Technical Service Bulletin

Mazda North American Operations Irvine, CA 92618-2922



Subject:

07-006/17 - A/C BLOWS WARM AIR DUE TO REFRIGERANT LEAK

Bulletin No.: 07-006/17

Last Issued: 05/26/2017

BULLETIN NOTES

This bulletin supersedes the previously issued bulletin(s) listed below: The changes are noted in Red.

Previously issued TSBs:	Date issued:	
07-004/17	04/18/2017	
07-006/16	12/12/2016	
07-001/17	02/15/2017, 01/06/2017	

APPLICABLE MODEL(S)/VINS

2016-2017 CX-3 USA/Mexico vehicles with VINs lower than JM1 DK ****** 162553 (produced before December 19, 2016)

2016-2017 CX-3 Canada vehicles with VINs JM1 DK ****** 100037 through 162553 (produced from March 09, 2015 through December 19, 2016)

2016-2017 Mazda2 Mexico vehicles with VINs 3MD DJ ****** 100050 through 109656 (produced from December 19, 2014 through December 04, 2016)

DESCRIPTION

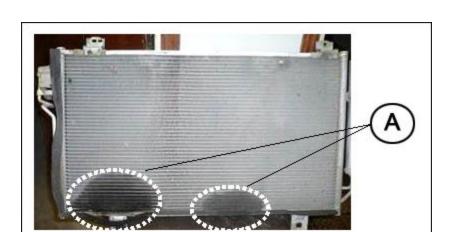
Some customers may complain about warm air from the climate control vents. This may be caused one or both of the following:

Condenser corrosion, causing a refrigerent leak (A).

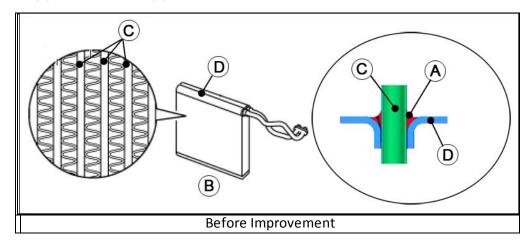
Page **1** of **11**

CONSUMER NOTICE: The information and instructions in this bulletin are intended for use by skilled technicians. Mazda technicians utilize the proper tools/ equipment and take training to correctly and safely maintain Mazda vehicles. These instructions should not be performed by "do-it-yourself ers." Customers should not assume this bulletin applies to their vehicle or that their vehicle will develop the described concern. To determine if the information applies, customers should contact their nearest authorized Mazda dealership. Mazda North American Operations reserves the right to alter the specifications and contents of this bulletin without obligation or advance notice. All rights reserved. No part of this bulletin may be reproduced in any form or by any means, electronic or mechanical---including photocopying and recording and the use of any kind of information storage and retrieval system ---without permission in writing.

Last Issued: 05/26/2017



• Improper brazing (A) of the evaporator (B), causing a refrigerant leak from the joint between the tubes (C) and the header (D).



Customers having these concerns should have their vehicle repaired using the following repair procedures.

Repair Procedure Outline

Bulletin No.: 07-006/17

Page **2** of **11**

consumer Notice: The information and instructions in this bulletin are intended for use by skilled technicians. Mazda technicians utilize the proper tools/ equipment and take training to correctly and safely maintain Mazda vehicles. These instructions should not be performed by "do-it-yourself ers." Customers should not assume this bulletin applies to their vehicle or that their vehicle will develop the described concern. To determine if the information applies, customers should contact their nearest authorized Mazda dealership. Mazda North American Operations reserves the right to alter the specifications and contents of this bulletin without obligation or advance notice. All rights reserved. No part of this bulletin may be reproduced in any form or by any means, electronic or mechanical---including photocopying and recording and the use of any kind of information storage and retrieval system ---without permission in writing.

Bulletin No.: 07-006/17	Last Issued: 05/26/2017

Repair Procedure	Description	Model	
A.	Condenser corrosion, causing a refrigerent leak	2016-2017 CX-3 vehicles with VINs lower than JM1 DK ****** 159395 (produced before November 01, 2016)	
В.	Improper brazing of the evaporator, causing a refrigerent leak	2016-2017 CX-3 USA/Mexico vehicles with VINs JM1 DK ******* 103784 through 162553 (produced from June 01, 2015 through December 19, 2016) 2016-2017 CX-3 Canada vehicles with VINs JM1 DK ****** 100037 through 162553 (produced from March 09, 2015 through December 19, 2016) 2016-2017 Mazda2 Mexico vehicles with VINs 3MD DJ ****** 100050 through 109656(produced from December 19, 2014through December 04, 2016)	

Page **3** of **11**

Bulletin No.: 07-006/17 Last Issued: 05/26/2017

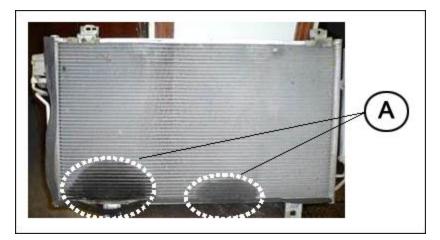
REPAIR PROCEDURE

1. Verify customer concern.

2.Use a dealer supplied manifold gauge tool to check the A/C refrigerant charge. Refer to MGSS online Workshop Manual REFRIGERANT PRESSURE CHECK. Is the A/C refrigerant charge low?

- Yes Go to step 3.
- No This Service Information is not applicable. Refer to MGSSonline Workshop Manual:
 - Manual A/CNO COOL AIR [MANUAL AIR CONDITIONER].
 - Auto A/CNO COOL AIR [FULL-AUTO AIR CONDITIONER].
- 3. Is the vehicle a Mazda2 or CX-3?
 - CX-3 Go to step 4.
 - Mazda2 Go to step 6.

4. Visually inspect the condenser for A/C refrigerant leak. Is there a visible trace of A/C refrigerant leak at location (A)?



Yes - Go to A. Repair Procedure.

NOTE:Before proceeding to A. Repair Procedure, go to step 6. for a possible evaporator leak also.

No - Go to step 5.

5.Use a dealer supplied UV leak detection tool. Is there a trace of fluorescent liquid at location (A)?

NOTE: UV fluorescent leak detection dye is added at the factory.

Yes - Go to A. Repair Procedure.

NOTE:Before proceeding to A. Repair Procedure, go to step 6. for a possible evaporator leak also.

No - Go to step 6.

Page **4** of **11**

CONSUMER NOTICE: The information and instructions in this bulletin are intended for use by skilled technicians. Mazda technicians utilize the proper tools/ equipment and take training to correctly and safely maintain Mazda vehicles. These instructions should not be performed by "do-it-yourself ers." Customers should not assume this bulletin applies to their vehicle or that their vehicle will develop the described concern. To determine if the information applies, customers should contact their nearest authorized Mazda dealership. Mazda North American Operations reserves the right to alter the specifications and contents of this bulletin without obligation or advance notice. All rights reserved. No part of this bulletin may be reproduced in any form or by any means, electronic or mechanical---including photocopying and recording and the use of any kind of information storage and retrieval system ---without permission in writing.

Bulletin No.: 07-006/17	Last Issued: 05/26/2017

6.Use a dealer supplied UV leak detection tool. Is there a trace of fluorescent liquid at the A/C unit drain hose end?

- Yes Go to B. Repair Procedure.
- No This Service Information is not applicable. Refer to MGSSonline Workshop Manual:
 - Manual A/CNO COOL AIR [MANUAL AIR CONDITIONER].
 - Auto A/CNO COOL AIR [FULL-AUTO AIR CONDITIONER].

A. Repair Procedure(Condenser corrosion, causing a refrigerent leak)

1.Replace the condenser. Refer to MGSSonline Workshop Manual CONDENSER REMOVAL/INSTALLATION [SKYACTIV-G 2.0].

NOTE: When replacing the condenser, add compressor oil of approximately 40 ml [40 cc, 1.4 fl oz]. Refer to MGSSonline Workshop ManualREFRIGERANT CHARGING.

2. Verify repair.

B. Repair Procedure(Improper brazing of the evaporator, causing a refrigerent leak)

- 1.Replace the A/C evaporator. Refer to MGSSonline Workshop Manual:
 - CX-3 A/C UNIT REMOVAL/INSTALLATION.
 - Mazda2 A/C UNIT REMOVAL/INSTALLATION.

NOTE: When replacing the evaporator, add compressor oil of approximately 40 ml [40 cc, 1.4 fl oz]. Refer to MGSSonline Workshop Manual REFRIGERANT CHARGING.

2. Verify repair.

Page **5** of **11**

CONSUMER NOTICE: The information and instructions in this bulletin are intended for use by skilled technicians. Mazda technicians utilize the proper tools/ equipment and take training to correctly and safely maintain Mazda vehicles. These instructions should not be performed by "do-it-yourself ers." Customers should not assume this bulletin applies to their vehicle or that their vehicle will develop the described concern. To determine if the information applies, customers should contact their nearest authorized Mazda dealership. Mazda North American Operations reserves the right to alter the specifications and contents of this bulletin without obligation or advance notice. All rights reserved. No part of this bulletin may be reproduced in any form or by any means, electronic or mechanical---including photocopying and recording and the use of any kind of information storage and retrieval system ---without permission in writing.

Bulletin No.: 07-006/17 **Last Issued:** 05/26/2017

SPECIAL SERVICE TOOLS

Part Number	Description	
DealerSupplied	A/C Manifold Gauge	
DealerSupplied	UV leak detection tool	

Page **6** of **11**

consumer Notice: The information and instructions in this bulletin are intended for use by skilled technicians. Mazda technicians utilize the proper tools/ equipment and take training to correctly and safely maintain Mazda vehicles. These instructions should not be performed by "do-it-yourselfers." Customers should not assume this bulletin applies to their vehicle or that their vehicle will develop the described concern. To determine if the information applies, customers should contact their nearest authorized Mazda dealership. Mazda North American Operations reserves the right to alter the specifications and contents of this bulletin without obligation or advance notice. All rights reserved. No part of this bulletin may be reproduced in any form or by any means, electronic or mechanical---including photocopying and recording and the use of any kind of information storage and retrieval system ---without permission in writing.

PARTS INFORMATION

A. REPAIR PROCEDUREPARTS INFORMATION (CX-3 only)

Part Number	Description	Qty.	Notes	Part Location	
DB3R- 61-480A	CONDENSER	1	(Part location A)		
GJ6A- 61-J19	O RING NO.1	1	Non reusable part (PartlocationB)	500	
GJ6E- 61-J19	O RING NO.2	1	Non reusable part (PartlocationC)		
5555- FG-002	A/C REFRIGERANT	As needed		B B C	
ZZC0- 61-K39	COMPRESSOR OIL		1 bottle repairs 5 vehicles 40 ml required from 210 ml/bottle)		

B. REPAIR PROCEDUREPARTS INFORMATION

Page **7** of **11**

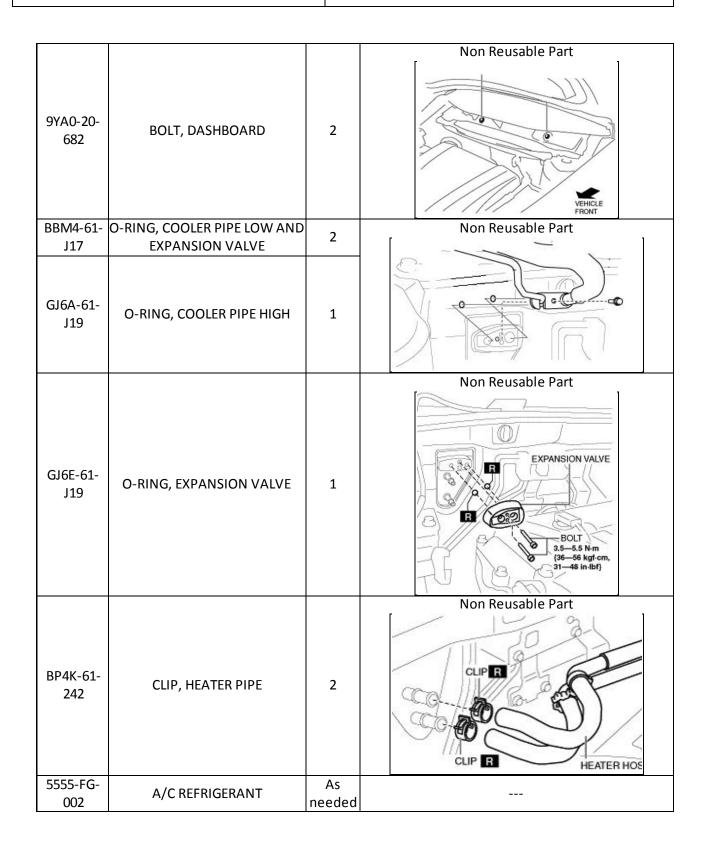
consumer Notice: The information and instructions in this bulletin are intended for use by skilled technicians. Mazda technicians utilize the proper tools/ equipment and take training to correctly and safely maintain Mazda vehicles. These instructions should not be performed by "do-it-yourselfers." Customers should not assume this bulletin applies to their vehicle or that their vehicle will develop the described concern. To determine if the information applies, customers should contact their nearest authorized Mazda dealership. Mazda North American Operations reserves the right to alter the specifications and contents of this bulletin without obligation or advance notice. All rights reserved. No part of this bulletin may be reproduced in any form or by any means, electronic or mechanical---including photocopying and recording and the use of any kind of information storage and retrieval system ---without permission in writing.

Part				
Number	Description	Qty.	Notes	
DD2F-61- J10A (CX-3) DB5H-61- J10A (Mazda2)	EVAPORATOR	1		
			Non Reusable Part	
D09W-68- 162	TRIM CLIP	2		
9YA0-11- 003A	BOLT, STEERING WHEEL	1	Non Reusable Part	
B455-32-	BOLT, INTERMEDIATE SHAFT	1	Non Reusable Part	
099B D10J-32- 099	BOLT, INTERMEDIATE SHAFT UPPER	1		

Page **8** of **11**

consumer Notice: The information and instructions in this bulletin are intended for use by skilled technicians. Mazda technicians utilize the proper tools/ equipment and take training to correctly and safely maintain Mazda vehicles. These instructions should not be performed by "do-it-yourselfers." Customers should not assume this bulletin applies to their vehicle or that their vehicle will develop the described concern. To determine if the information applies, customers should contact their nearest authorized Mazda dealership. Mazda North American Operations reserves the right to alter the specifications and contents of this bulletin without obligation or advance notice. All rights reserved. No part of this bulletin may be reproduced in any form or by any means, electronic or mechanical---including photocopying and recording and the use of any kind of information storage and retrieval system ---without permission in writing.

Bulletin No.: 07-006/17 Last Issued: 05/26/2017



Page **9** of **11**

consumer notice: The information and instructions in this bulletin are intended for use by skilled technicians. Mazda technicians utilize the proper tools/ equipment and take training to correctly and safely maintain Mazda vehicles. These instructions should not be performed by "do-it-yourself ers." Customers should not assume this bulletin applies to their vehicle or that their vehicle will develop the described concern. To determine if the information applies, customers should contact their nearest authorized Mazda dealership. Mazda North American Operations reserves the right to alter the specifications and contents of this bulletin without obligation or advance notice. All rights reserved. No part of this bulletin may be reproduced in any form or by any means, electronic or mechanical---including photocopying and recording and the use of any kind of information storage and retrieval system ---without permission in writing.

Bulletin No.: 07-006/17	Last Issued: 05/26/2017

Note: Use GEPC with VIN to look up the correct part numbers.

Page **10** of **11**

CONSUMER NOTICE: The information and instructions in this bulletin are intended for use by skilled technicians. Mazda technicians utilize the proper tools/ equipment and take training to correctly and safely maintain Mazda vehicles. These instructions should not be performed by "do-it-yourselfers." Customers should not assume this bulletin applies to their vehicle or that their vehicle will develop the described concern. To determine if the information applies, customers should contact their nearest authorized Mazda dealership. Mazda North American Operations reserves the right to alter the specifications and contents of this bulletin without obligation or advance notice. All rights reserved. No part of this bulletin may be reproduced in any form or by any means, electronic or mechanical---including photocopying and recording and the use of any kind of information storage and retrieval system ---without permission in writing.

Bulletin No.: 07-006/17	Last Issued: 05/26/2017

WARRANTY INFORMATION

NOTE:

 This warranty information applies only to verified customer complaints on vehicles eligible for warranty repair.

- This repair will be covered under Mazda's New Vehicle Limited Warranty term.
- Additional diagnostic time cannot be claimed for this repair.

	A. Repair Procedure	B. Repair Procedure	
	(Replace A/C Condenser)	(Replace A/C Evaporator)	
Warranty Type	Α	А	
Symptom Code	59	59	
Damage Code	9Y	9G	
Part Number Main Cause / Quantity	DB3R-61-480A / 1	DD2F-61-J10A / 1	
		or	
		DB5H-61-J10A / 1	
Related Part / Quantity	5555-CP-OIL / 1	5555-CP-OIL / 1	
Operation Number / Labor Hours:	XXMB4XRX / 1.2 Hrs.	XXMASARX / 3.2 Hrs.	
Refrigerant Charge / Labor	XXMATXRX / 0.7 Hrs.		
	(One repair or both combined)		

NOTE:

- Claim the replacement parts as related parts.
- Claim the compressor oil using 5555-CP-OIL Quantity 1 which will reimburse you for 40 ml (1/5of the can) (1 can repairs 5 vehicles).
- If both repairs are needed, claim 5555-CP-OIL Quantity 1on each repair which will reimburse you for 80 ml. DSM authorization will be required when performing both repairs.
- Claim the A/C refrigerant by entering the applicable part number and the quantity used as related part.

Page **11** of **11**